

ABSTRACT OF THE DISCLOSURE

A high pressure feed pump which includes a cylinder 12 which has a central bore which mounts a delivery piston 14 for reciprocation. The delivery piston is

5 reciprocated by a rotating drive shaft 28 which has an eccentric journal 36 formed thereon, and a rolling ring 40 is rotatably mounted on the eccentric journal. A plate-like spring element 62 is positioned between the front end of the delivery piston and the rolling ring.

10 Also, either the front end of the delivery piston or the side of the spring element which faces the delivery piston, is a concave configuration, so that at maximum pressure loading, the spring element is deformed into the concave region.

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